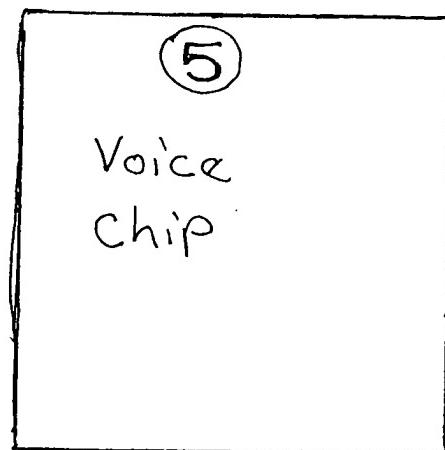
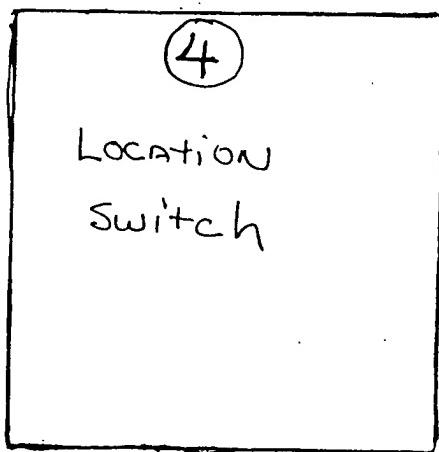
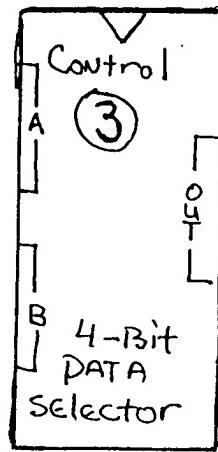
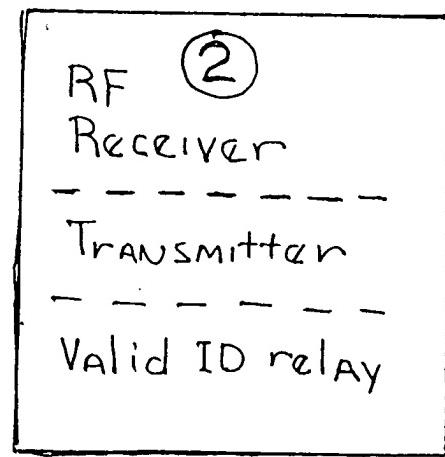
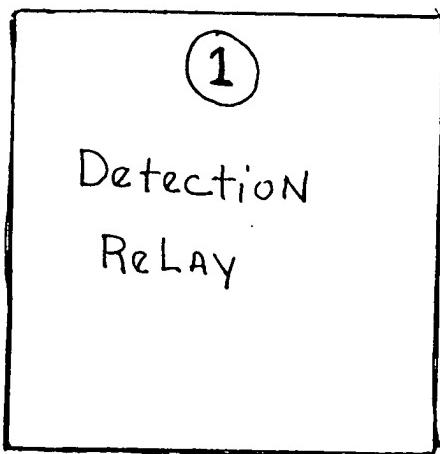
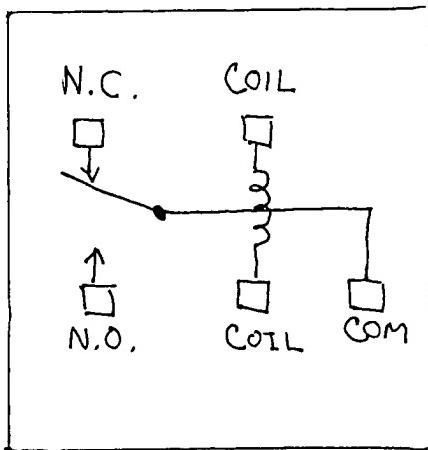


Diagram - 1 : Major Components. (L.S.A.R)



Major Components (L.S, A, R)

① - Detection Relay



5VDC PC RELAY SPDT. Radio shack cat # 275-243
USED TO CONTROL 12VDC SUPPLY FOR
RF RECEIVER / TRANSMITTER.

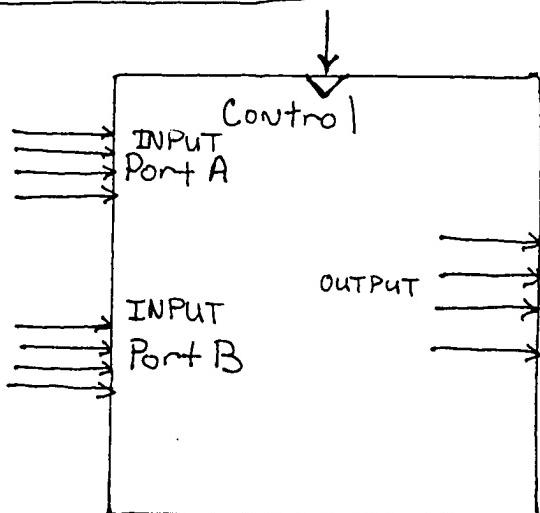
② - RF Receiver/Transmitter

A0	Relay 1
A1	Relay 2
A2	DATA 1
A3	DATA 2
A4	DATA 3
A5	DATA 4
A6	GND
A7	+12V

Ming / microsystems - 12-Bit Decoder Motherboard, RE-01
- RF RECEIVER BOARD, RE-99
- 12-Bit ENCODER Motherboard, TX-01
- RF Transmitter Board, TX-99

Major Components (L.S.A, R)

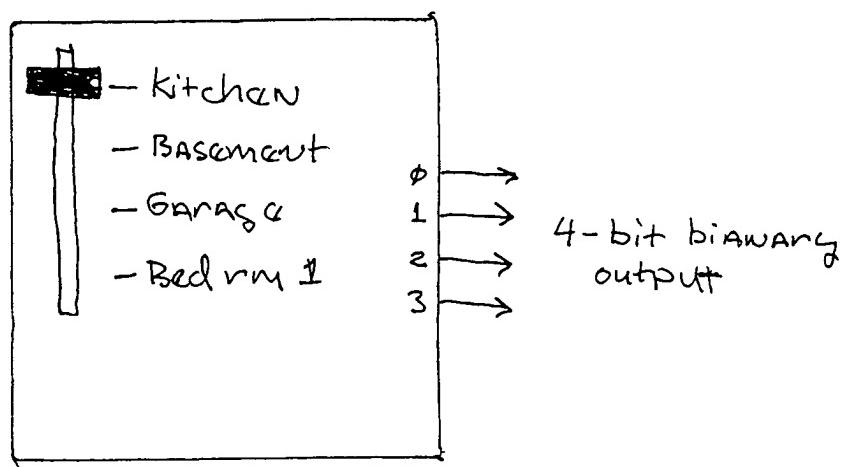
③ - 4 Bit DATA Selector



0 Volts on control line Input Port B connected to output.

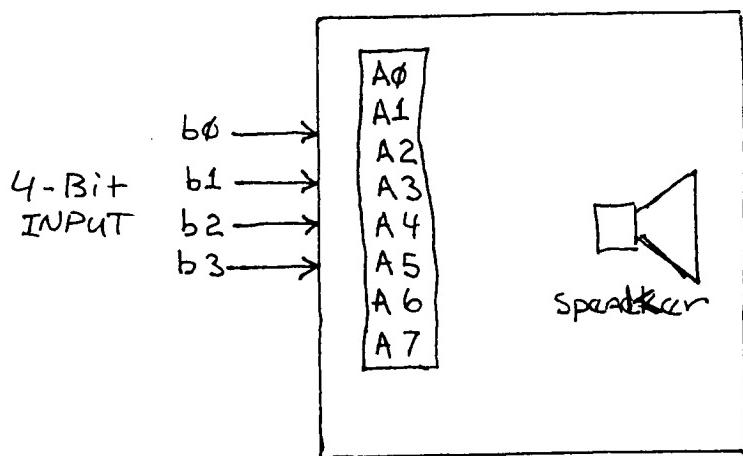
5 Volts on control line Input Port A connected to output.

④ - Location Switch



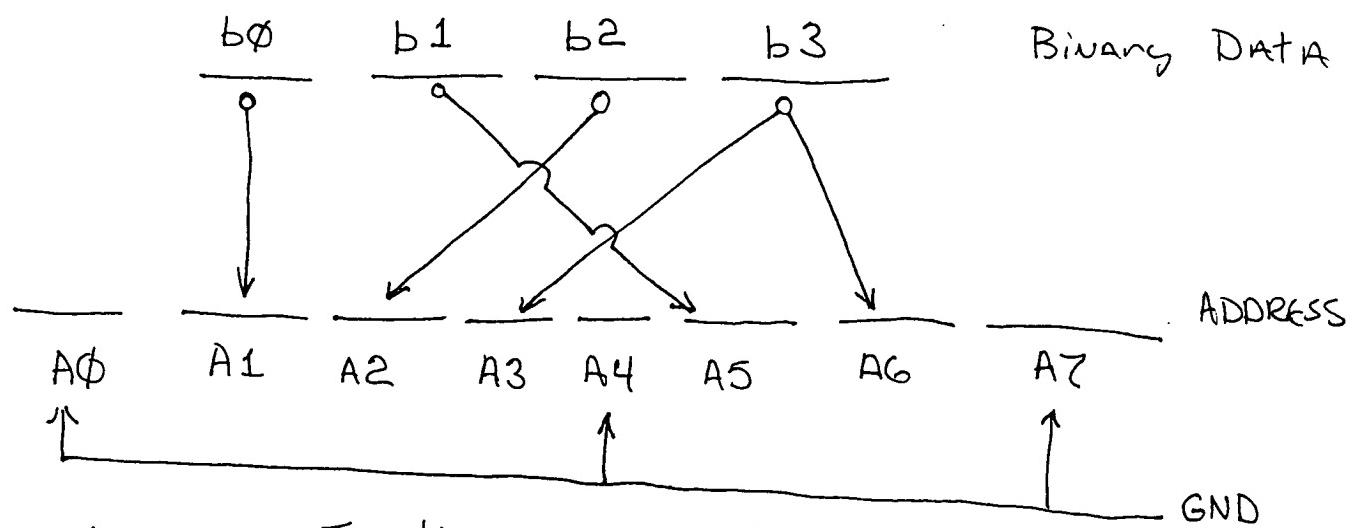
Positional switch outputs binary Location code.

Major Components (L.S, A.R)

(5) - Voice Chip (chipCorder)

ISD - Information Storage Devices 1200/1400 Series

4-Bit Input Hardwired into 8-Bit Address
AS shown below.

Sending

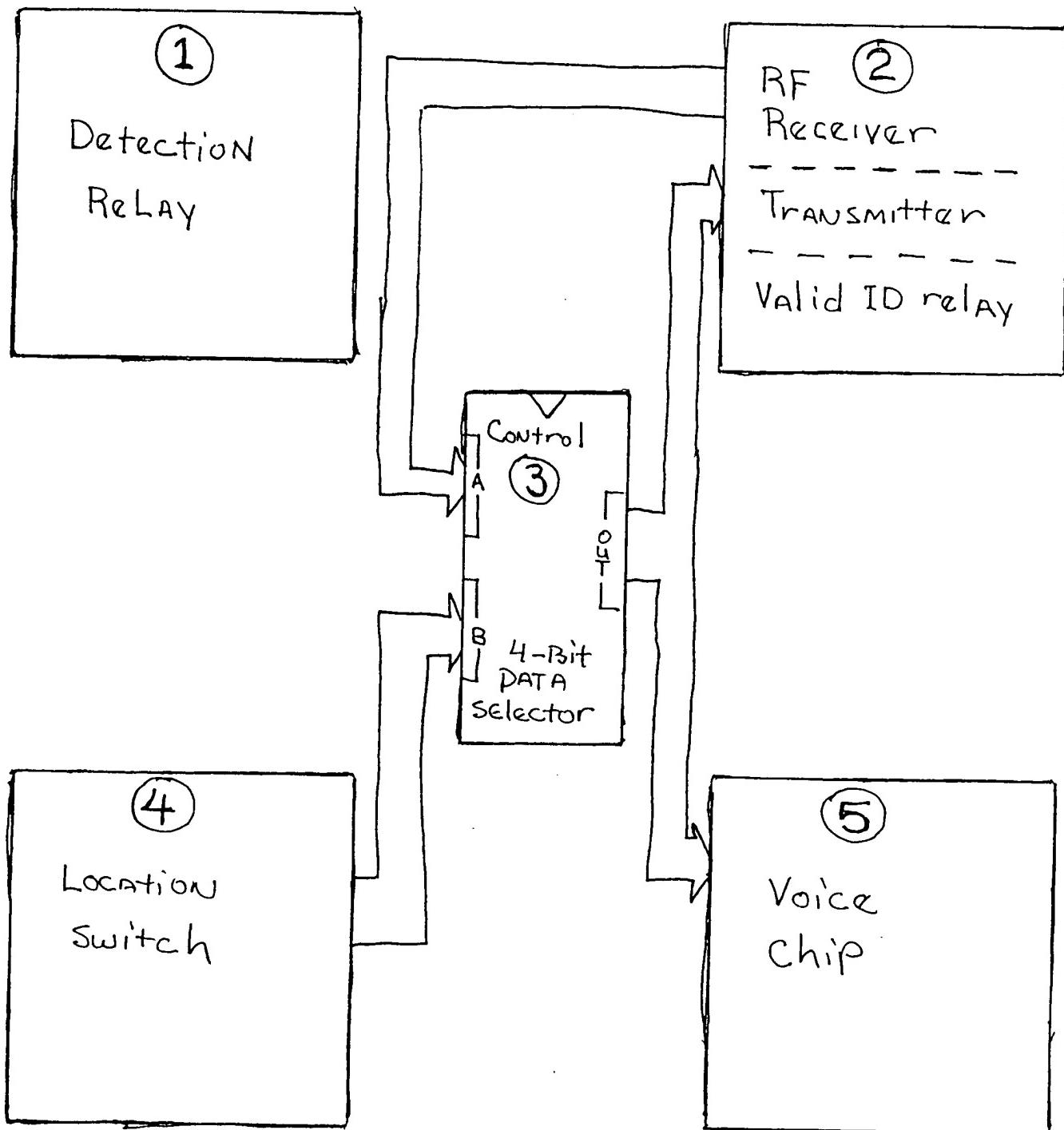
ϕ_{10} → ϕ_h → ADDRESS MEMORY LOCATION - 1

3_{10} → 32_h → " " " " " " - 2

14_{10} → 64_h → " " " " " " - 3

Encoding

Diagram - 2: DATA PATH (L.S.A.R)



DATA PATH (L,S,A,R)

Two modes of operation, mode 1: Detection Sensing device activation. (smoke/mouoxide detector) trips the Detection Relay ①. DATA from the Location Switch ④ is routed thru Data Selector ③ (PORT B) To Output.

0 Volts ON DATA SELECTOR CONTROL, DATA Applied to Transmitter ② and Voice chip ⑤.

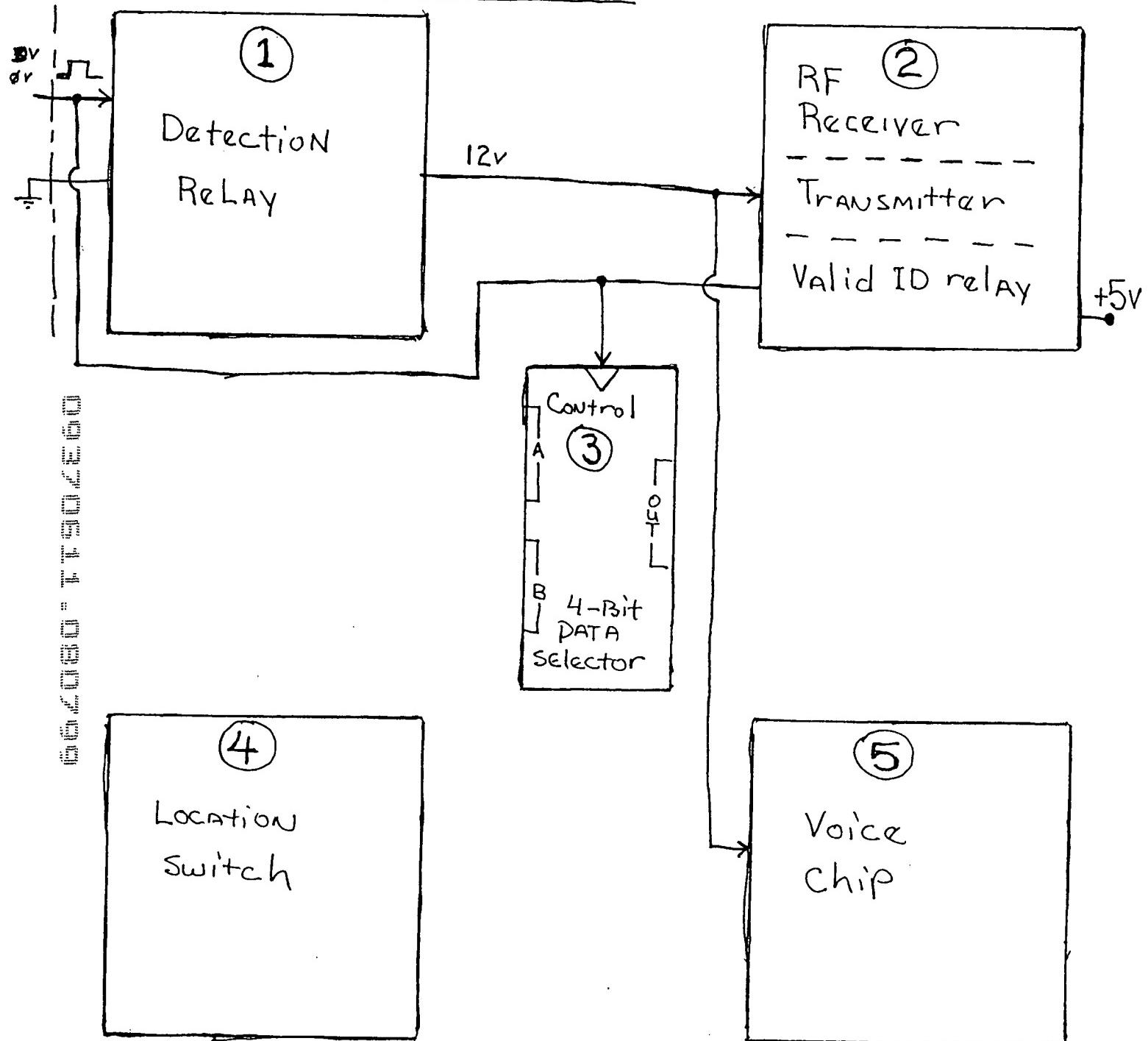
mode 2 : Relay

RF Receiver ② detects' A COMMUNICATION Code match, 8-bit address Code.

4-bits DATA latched at Data Selector ③ Port A.

Valid ID Relay ② closes which applies + 5 volts to the Data selector ③ control routing DATA thru Port A to transmitter ② and Voice chip ⑤

Valid ID Relay ② also triggers Detection Relay ① which powers the transmitter ② and voice chip ⑤.

Diagram - 3 : Control lines (L.S.A.R)

Control lines (L.S.A.R)

Two modes of operation, mode 1: Detection.

Transitional (Voltage/ current) signal

From a monitored device causes the Detection Relay ① to open which applies 12volts to the RF transmitter ② AND The voice chip ⑤

Mode 2: Relay

RF - Receiver ② validates a communication code match, valid ID Relay ② opens which applies +5volts to trip the Detection Relay ①, +5volts is also applied to the Data Selector ③ control